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# Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

### Listing of Claims:

1. (Original) A quinoxaline derivative represented by general [formula 1]:

## [formula 1]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

2. (Original) A quinoxaline derivative represented by general [formula 2]:

$$R_1$$
  $R_2$   $R_3$   $R_4$ 

 $R_5$ 

[formula 2]

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R8 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

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3. (Original) A quinoxaline derivative represented by general [formula 3]:

## [formula 3]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

4. (Original) A quinoxaline derivative represented by general [formula 4]:

# [formula 4]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

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5. (Original) A quinoxaline derivative represented by general [formula 5]:

## [formula 5]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 
 $R_5$ 
 $R_8$ 
 $R_7$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R8 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

6. (Currently Amended) The quinoxaline derivative according to any one of Claims 1 to 5, wherein the quinoxaline derivatives comprising the heterocyclic group represented by general [formula 6]:

### [formula 6]

(wherein A represents S or O.)

7. (Original) An organic semiconductor device comprising a quinoxaline derivative represented by general [formula 1]:

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(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

8. (Original) An organic semiconductor device comprising a quinoxaline derivative represented by general [formula 2]:

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R8 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

9. (Original) An organic semiconductor device comprising a quinoxaline derivative represented by general [formula 3]:

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## [formula 3]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

10. (Original) An organic semiconductor device comprising a quinoxaline derivative represented by general [formula 4]:

## [formula 4]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

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11. (Original) An organic semiconductor device comprising a quinoxaline derivative represented by general [formula 5]:

### [formula 5]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R8 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

12. (Currently Amended) The organic semiconductor device comprising the quinoxaline derivative according to any one of Claims 7 to 11, wherein the quinoxaline derivative comprising heterocyclic group represented by general [formula 6]:

#### [formula 6]

(wherein A represents S or O.)

13. (Original) An electroluminescent device according to any one of Claims 6 to 12, wherein the quinoxaline derivatives are used as an electron transporting material.

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14. (Original) An electroluminescent device according to any one of Claims 6 to 12, wherein the quinoxaline derivatives are used as a hole blocking material.

15. (Original) An electroluminescent device comprising a light-emitting layer comprising a quinoxaline derivative represented by general [formula 1] and a guest material:

## [formula 1]

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

16. (Original) An electroluminescent device comprising a light-emitting layer comprising a quinoxaline derivative represented by general [formula 2] and a guest material:

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R8 represent individually hydrogen, an

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alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

17. (Original) An electroluminescent device comprising a light-emitting layer comprising a quinoxaline derivative represented by general [formula 3] and a guest material:

## [formula 3]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

18. (Original) An electroluminescent device comprising a light-emitting layer comprising a quinoxaline derivative represented by general [formula 4] and a guest material:

# [formula 4]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 

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(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

19. (Original) An electroluminescent device comprising a light-emitting layer comprising a quinoxaline derivative represented by general [formula 5] and a guest material:

## [formula 5]

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 

(wherein X and Y represent alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heterocyclic group, and R1 to R6 represent individually hydrogen, an alkyl group, an alkoxyl group, a substituted or unsubstituted aryl group, and a substituted or unsubstituted heterocyclic group.)

20. (Currently Amended) The electroluminescent device according to any one of Claims 19 to 23, the electroluminescent device comprising:

a light-emitting layer containing a guest material; and quinoxaline derivatives,

wherein the quinoxaline derivatives comprising heterocyclic group represented by general [formula 6]:

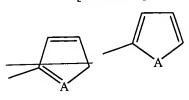
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[formula 6]



(wherein A represents S or O.)

21. (Original) An electroluminescent device according to any one of Claims 15 to 20, the guest material is a phosphorescent material.